(19) World Intellectual Property Organization International Bureau



## 

(43) International Publication Date 19 May 2005 (19.05.2005)

PCT

(10) International Publication Number W/O 2005/044783 A2

(51) International Patent Classification<sup>7</sup>: C07C 253/00, 253/34, 255/03, B01D 61/36

(21) International Application Number:

PCT/EP2004/012167

(22) International Filing Date: 28 October 2004 (28.10.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 03025184.7

4 November 2003 (04.11.2003)

(71) Applicant (for all designated States except US): UCB, S.A. [BE/BE]; Allée de la Recherche, 60, B-1070 Brussels (BE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): VAN, Gysel, August [BE/FR]; 355, route de Sivry, F-59740 Solre le Château (FR). SOETERBROECK, Frans [NL/BE]; D-G Melijnlaan 12, B-2070 Zwijndrecht (BE). VERMEULEN, Geert [BE/BE]; Stationstraat 77, B-2230 Ramsel (BE).

(74) Agent: LECHIEN, Monique; UCB, S.A., Allée de la Recherche 60, B-1070 Brussels (BE).

Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM). European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ACETONTTRILE RECYCLING PROCESS

(57) Abstract: The present invention relates to improved processes to recover acetonitrile from a diluted aqueous low grade acetonitrile feedstock.

DOS/04/183 AZ